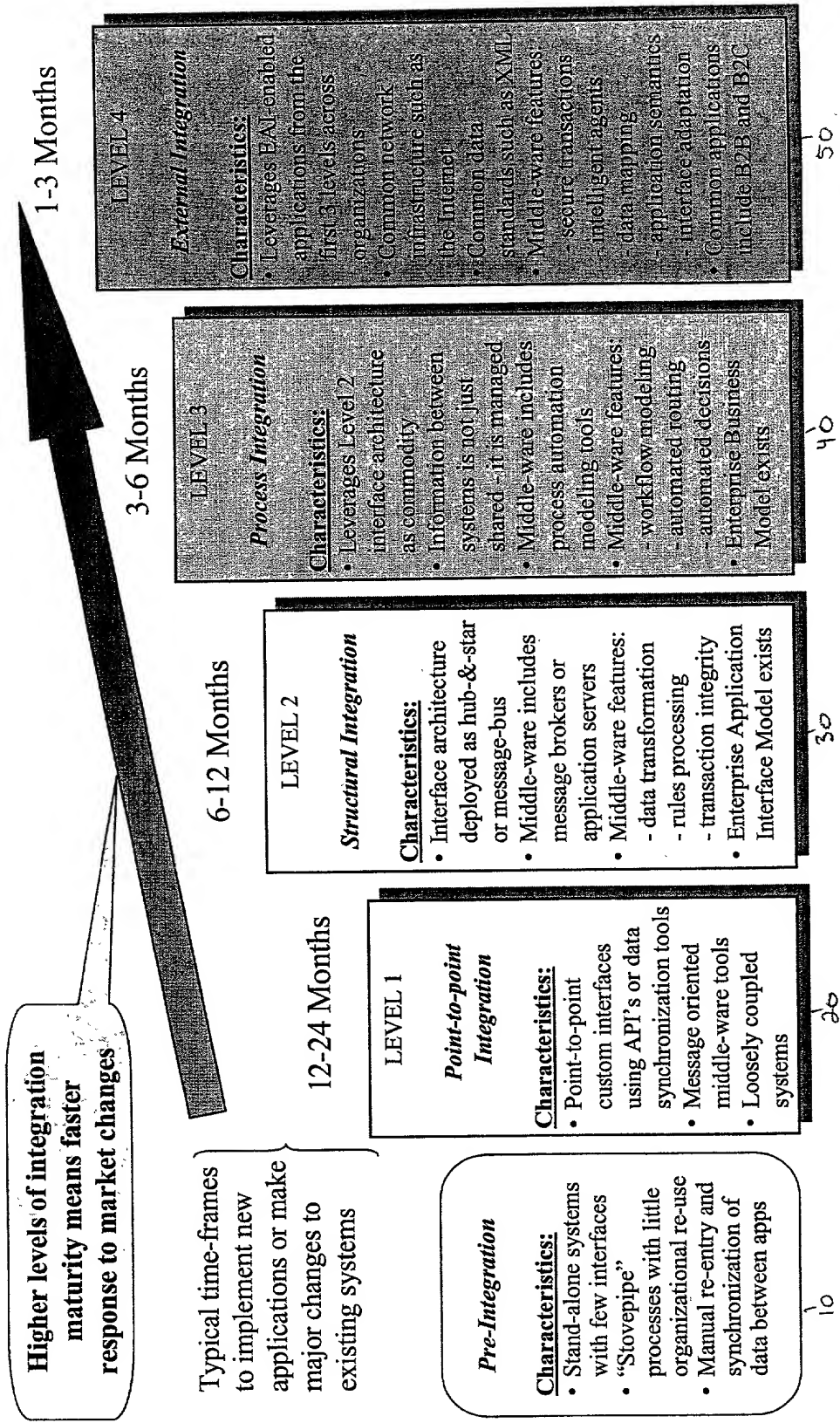FIG. 1

Application Integration Maturity Model
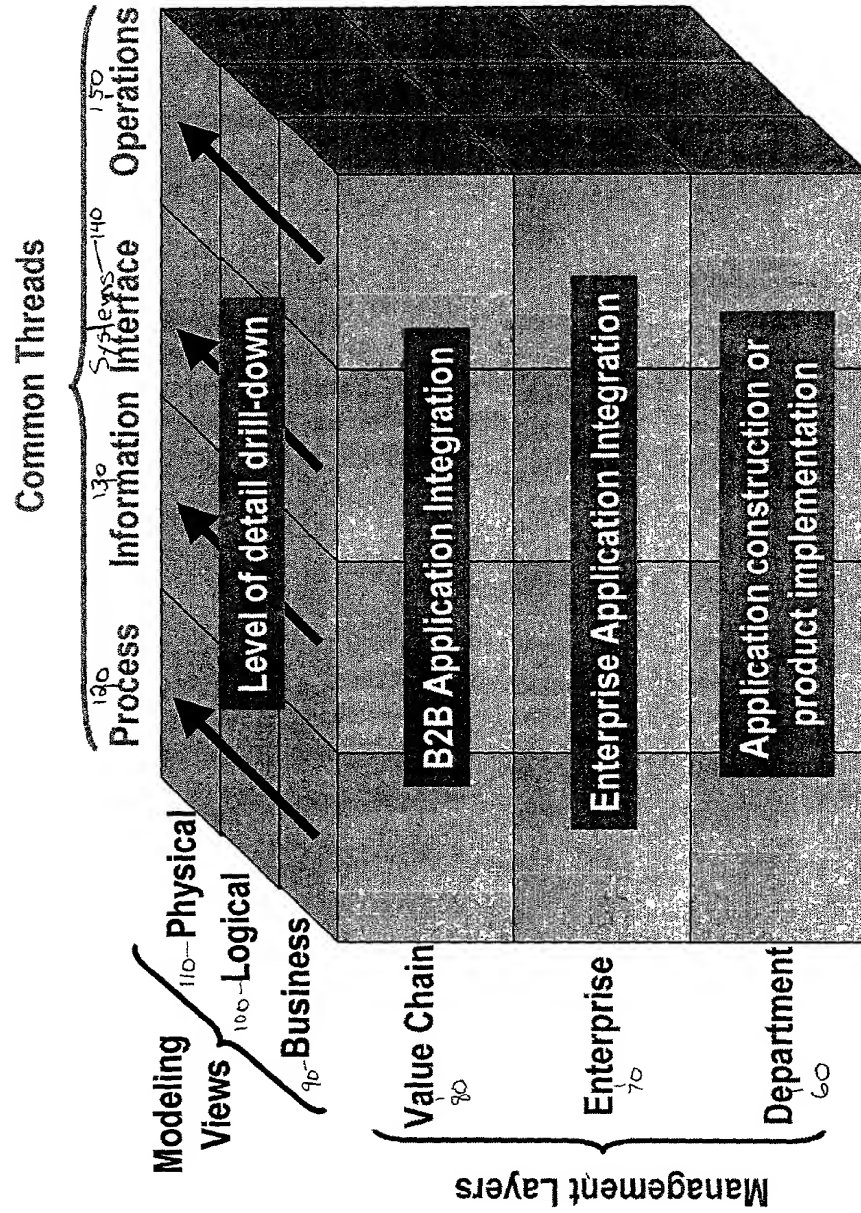
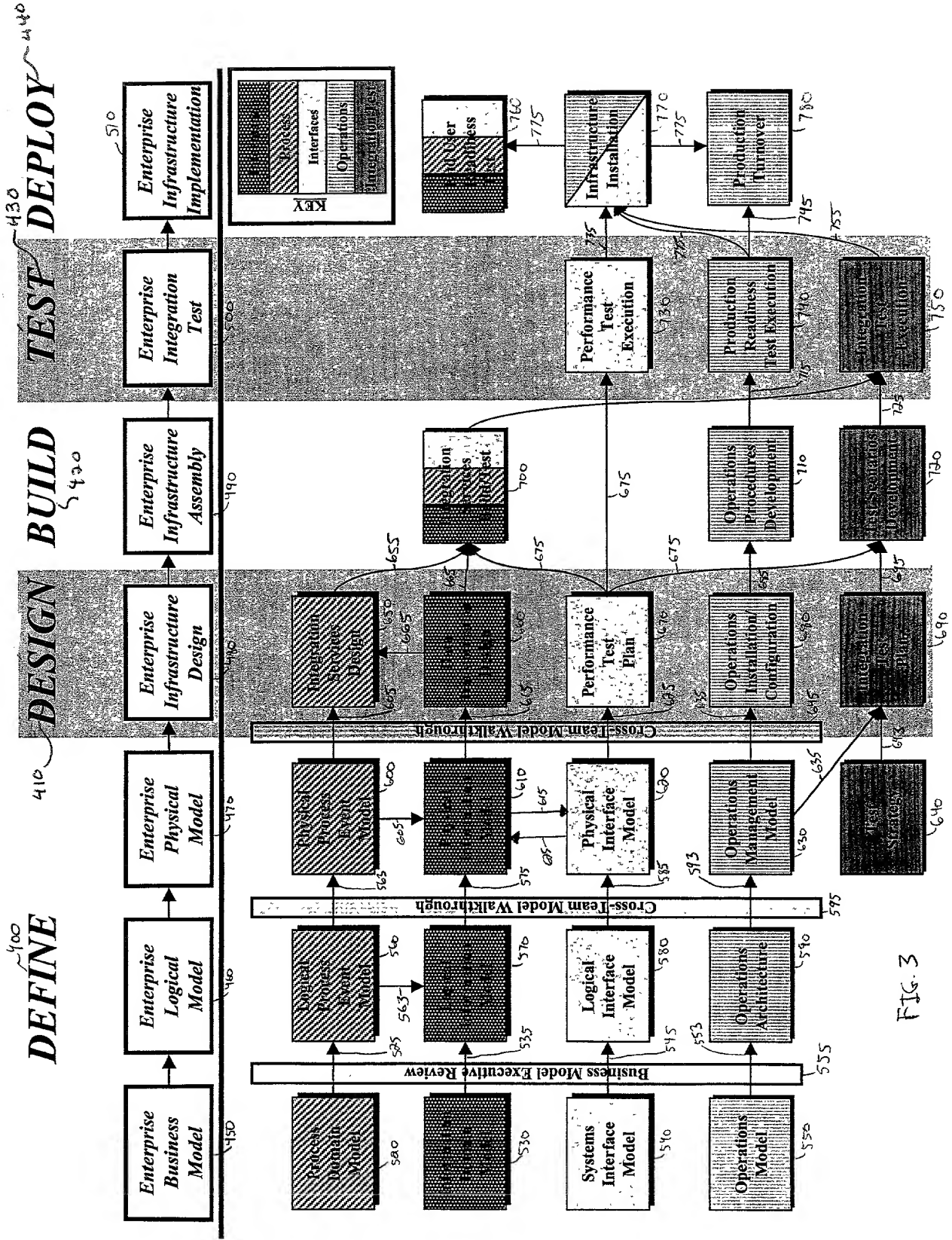**Higher levels of integration maturity means faster response to market changes**

Typical time-frames to implement new applications or make major changes to existing systems

1-3 Months

3-6 Months

6-12 Months

12-24 Months

LEVEL 4

External Integration

Characteristics:
- Leverage EAI-enabled applications from the first 3 levels across organizations
- Common network infrastructure such as the Internet
- Common data standards such as XML
- Middle-ware features:
  – secure transactions
  – intelligent agents
  – data mapping
  – application semantics
  – interface adaptation
- Common applications include B2B and B2C

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LEVEL 3

Process Integration

Characteristics:
- Leverages Level 2 interface architecture as commodity
- Information between systems is not just shared –it is managed
- Middle-ware includes process automation modeling tools
- Middle-ware features:
  – workflow modeling
  – automated routing
  – automated decisions
- Enterprise Business Model exists

40

LEVEL 2

Structural Integration

Characteristics:
- Interface architecture deployed as hub-&-star or message-bus
- Middle-ware includes message brokers or application servers
- Middle-ware features:
  – data transformation
  – rules processing
  – transaction integrity
- Enterprise Application Interface Model exists

30

LEVEL 1

Point-to-point Integration

Characteristics:
- Point-to-point custom interfaces using API's or data synchronization tools
- Message oriented middle-ware tools
- Loosely coupled systems

20

Pre-Integration

Characteristics:
- Stand-alone systems with few interfaces
- "Stovepipe" processes with little organizational re-use
- Manual re-entry and synchronization of data between apps

10

Common Threads

Modeling
Views

Physical 110
Logical 100
Business 90

Process 120
Information 130
Systems 140
Interface
Operations 150

Level of detail drill-down

Value Chain 80

Enterprise 70

Department 60

B2B Application Integration

Enterprise Application Integration

Application construction or product implementation

Management Layers

FIG. 2

Fig. 3